



NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

**BASIC IMAGERY
INTERPRETATION
REPORT**

**HUAI-JOU STORAGE AREA
(HUAI-JOU PROBABLE SOLID PROPELLANT
ROCKET MOTOR R&D FACILITY)**



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CHINA

DECEMBER 1970

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INSTALLATION OR ACTIVITY NAME

Huai-jou Storage Area

COUNTRY

CH

UTM COORDINATES

NA

GEOGRAPHIC COORDINATES

40-24-50N 116-39-40E

MAP REFERENCE

67th RTS. USATC, Series 200, Sheet 0289-22, scale 1:200,000

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NEGATION DATE (If required)

NA

ABSTRACT

1. Huai-jou Storage Area is now identified as Huai-jou Probable Solid Propellant Rocket Motor R&D Facility. This facility produces probable rocket motor propellant, at least on a pilot scale, and is capable of producing the inert components for rocket motors and possibly other weapons. It also probably operates engineering and testing facilities for a rocket motor development program.

2. Similarities of key structures at the Huai-jou facility and at Hu-ho-hao-te Solid Propellant Rocket Motor Complex and the construction chronology of the respective propellant production areas at the two installations suggest that both are involved in work on composite propellant programs.

3. This report contains a location map, a photograph and a line drawing of the Huai-jou facility, photographs of structures at Huai-jou and Hu-ho-hao-te, and a table containing a description of structures and mensural and chronological data.

INTRODUCTION

4. Huai-jou Probable Solid Propellant Rocket Motor R&D Facility is 32 nautical miles northeast of Peking, China (Figure 1). The facility is on relatively level terrain except for the probable rocket motor finishing, inspection, and testing facilities which are in an adjacent canyon.

5. Table 1 (with item numbers keyed to Figure 3) presents a description of structures, detailed mensural data, the chronological development of the facility, and other data derived from [] photography of the facility []

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6. Structures in two of the five areas of Huai-jou Probable Solid Propellant Rocket Motor R&D Facility appear similar to structures in like areas in Hu-ho-hao-te Solid Propellant Rocket Motor Complex.¹ The comparison of the probable propellant mixing buildings and of the probable inert components production buildings with those at a known solid propellant rocket motor production facility helped to reinforce the identification of this facility as a probable solid propellant rocket motor R&D facility. A photographic comparison of parts of Huai-jou Probable Solid Propellant Rocket Motor R&D Facility and Hu-ho-hao-te Solid Propellant Rocket Motor Complex is shown in Figure 4.

BASIC DESCRIPTION

7. Huai-jou Probable Propellant Rocket Motor R&D Facility consists of five general areas (Figure 2). These areas have been identified as a probable propellant production area; a laboratory/engineering area; a probable inert components production area; a probable rocket motor inspection, finishing, and testing area; and a probable support and housing area. Each area is described in this report.

Probable Propellant Production Area

8. The probable propellant production area (Figure 3 and Table 1) contains two probable propellant mixing buildings (items 2,3), one probable ingredients preparation building (item 1), one possible laboratory/casting building (item 4), two probable

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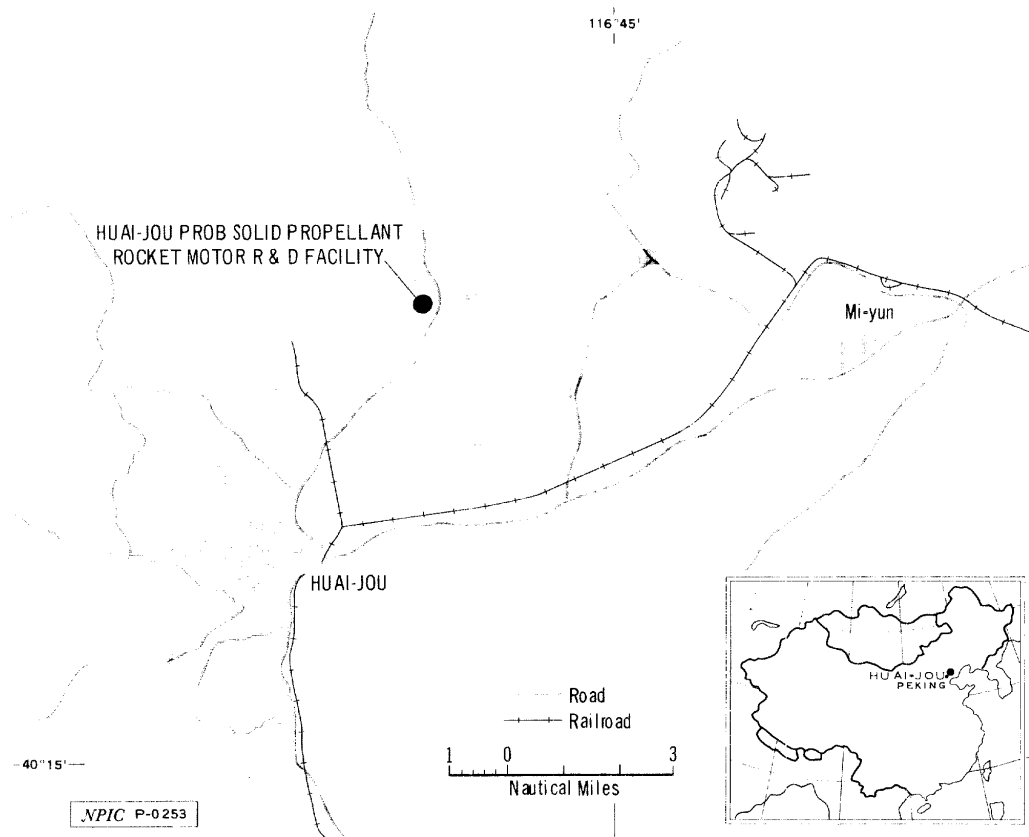


FIGURE 1. LOCATION MAP

propellant processing buildings (items 5,7), one probable laboratory/engineering building (item 6), one probable administration/engineering building (item 8), and eight support buildings.

Laboratory/Engineering Area

9. The laboratory/engineering area (Figure 3 and Table 1) contains two large and four small probable engineering buildings (items 21, 26-28, 30), two shop buildings (items 2, 13), three possible shop buildings (items 14-16), two probable engineering/shop buildings (items 3,10), one probable engineering and testing building (item 12), one probable laboratory building (item 19), one administration building (item 13), four heating plants (items 5,9,11,23), one control and switching house (item 6), three unidentified buildings (items 1,4,20), seven barracks (items 7,25), four warehouses (items 17,22), one probable messhall (item 24), one possible test pad (item 29), sixteen support buildings, and foundations for at least two additional buildings (item 8).

Probable Inert Components Production Area

10. The probable inert components production area (Figure 3 and Table 1) contains four shop buildings (items 2-4,6), one steamplant/heat treatment building (item 5), one administration/engineering building (item 7), two warehouses (item 1), and three support buildings.

Probable Rocket Motor Inspection, Finishing, and Testing Area

11. The probable rocket motor inspection, finishing, and testing area (Figure 3 and Table 1) contains one probable rocket motor test position (item 1), one probable control building (item 2), one possible rocket motor test building (item 3), one probable engineering/inspection building (item 6), four probable test support buildings (items 4,7,17,19), one probable engineering/shop building with an adjacent waste propellant disposal pit (item 5), five possible propellant/motor storage buildings (items 8-12), two

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25X1 probable barracks (item 14), one probable vehicle storage building (item 5), one administration/engineering building (item 10), a hardstand area (item 18), one unidentified building (item 13), and 19 support buildings.

Probable Support and Housing Area

12. The probable support and housing area (Figure 3 and Table 1) contains six multistory quarters (items 1-4,9,10), one vehicle storage building (item 5), five dependents housing buildings (item 6), one auditorium/messhall and kitchen (item 7), one steamplant (item 11), one large support building (item 8), and eight other support buildings.

25X1 **Chronology**

25X1 13. The first photographic coverage of Huai-jou Probable Solid Propellant Rocket
25X1 Motor R&D Facility [redacted] At that time no specific structures could be identified, but
25X1 road patterns were evident. A large percentage of the total facility had been built by [redacted]
25X1 The structures observed at that time included those used for laboratory/engineering, inert
25X1 components production, support, and housing. No major changes in the facility were
25X1 evident until photography [redacted] revealed that the major elements in the
25X1 probable rocket motor inspection, finishing, and testing area had been added [redacted]

25X1 The first indications of a propellant production capability became evident [redacted] when the
25X1 majority of the buildings in the probable propellant production area were observed
25X1 complete. With minor exceptions, the facility appeared then as it did on the latest
25X1 photography.

Production Activity

14. The Huai-jou facility seems to have an R&D function because the testing facilities are small and the area of engineering floorspace is much greater than the area of the probable propellant production floorspace.

15. The small size of the probable propellant production area and the proximity of the production buildings to each other preclude the possibility that the propellant production capability of the facility could be more than a laboratory-scale effort.

16. The relatively large size of the probable inert components production area compared to the size of the probable propellant production area and the fact that the probable inert components production area predates the probable propellant production area suggest that hardware other than that used in rocket motors may be or may have been developed at the Huai-jou facility. This may also account for the diversity of the elements of the probable rocket motor inspection, finishing, and testing area.

Essential Services

17. The facility is served by all-weather, hard-surface roads, some of which are lighted. No rail service has been observed. Electric power is provided from a local source and is distributed through the substation in the laboratory/engineering area.

Security

18. Security appears to be standard for a facility of this type. The east side of the facility is fenced, and access to the west side is blocked by a mountain. The probable propellant production area and two small parts of the laboratory/engineering area are enclosed by additional fences. An area in the southern part of the probable rocket motor inspection, finishing, and testing area is located in a canyon with a fence across the entrance.

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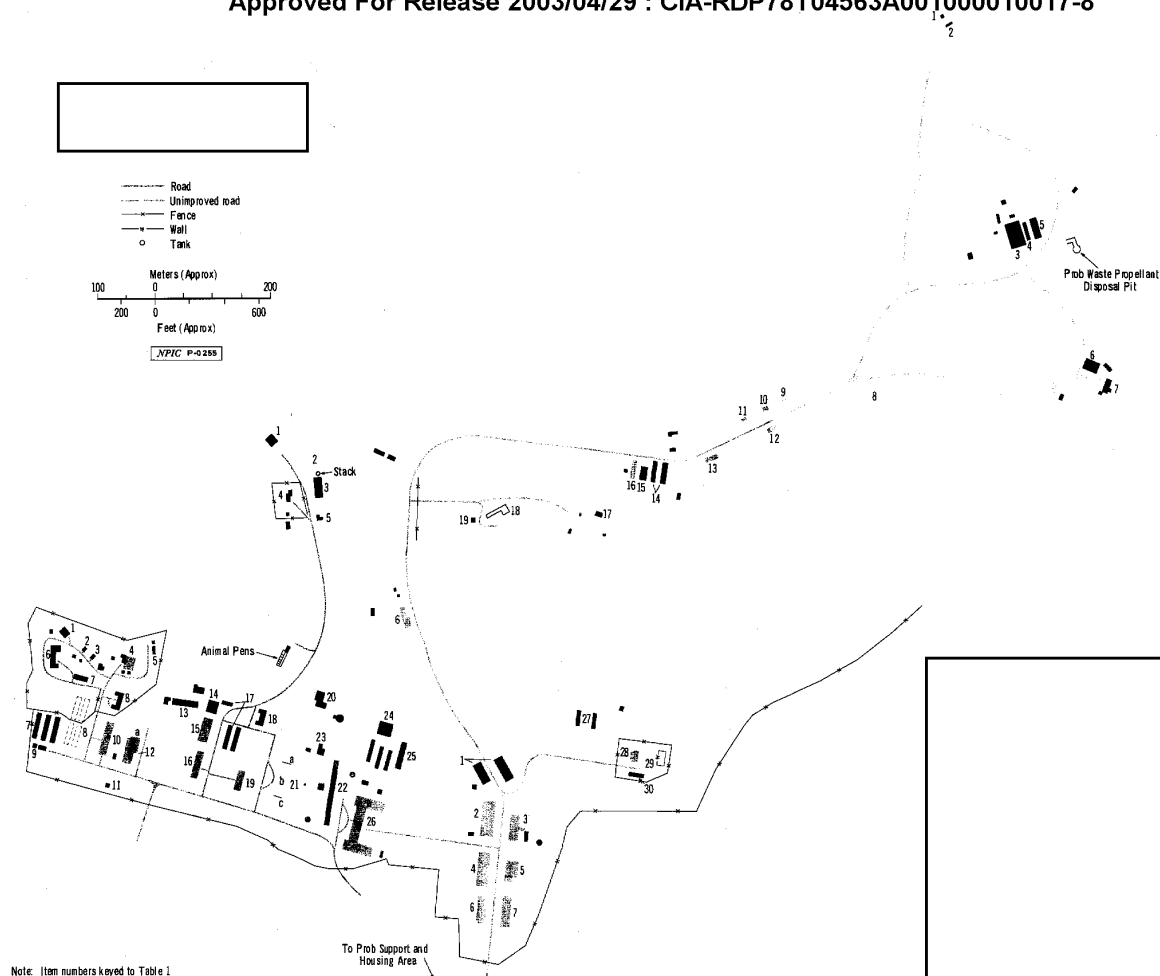
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Table 1. Data on Thijsje Probable Solid Propellant Rocket Motor R&D Facility (Item numbers keyed to Figure 3)

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Item	Description	Comments	Item	Description	Comments
Probable Propellant Production Area		An addition on the south side was completed [redacted]	Probable Isent Composite Production Area		A pass heat treatment bldg is on the north side.
1	Prob ingredients prep bldg		1	Warehouse (2)	
2	Prob propellant mixing bldg		2	Shop bldg	
3	Prob propellant mixing bldg		3	Shop bldg	
4	Paste laboratory/testing bldg		4	Shop bldg	
5	Prob propellant processing bldg		5	Storage/test treatment bldg	
6	Prob laboratory/engineering bldg		6	Shop bldg	
7	Prob propellant processing bldg		7	Admin/engineering bldg	
8	Prob admin/engineering bldg		3 support bldgs		
Laboratory/Engineering Area			Probable Rocket Motor Inspection, Finishing		
1	Unit bldg	Partially bunkered by natural grade	1	Prob rocket motor test position	Turnout provides berthing. Contains 4 pass test cells
2	Shop bldg		2	Prob control bldg	
3	Prob engineering/shop bldg		3	Paste rocket motor test bldg	
4	Unit bldg		4	Prob test support bldg	
5	Heating plant	Has a stack on west end. Dimensions approximate	5	Prob engineering/shop bldg	A waste propellant disposal pit is on the northeast side.
6	Control and switching house		6	Prob engineering/inspection bldg	
7	Barracks (3)		7	Prob test support bldg	
8	Bldg foundations		8	Paste propellant/motor storage bldg	
9	Heating plant	Foundations for 3-4 bldgs were first observed [redacted]	9	Paste propellant/motor storage bldg	An addition was completed [redacted] dimensions approximate
10	Prob engineering/shop bldg		10	Paste propellant/motor storage bldg	
11	Heating plant		11	Paste propellant/motor storage bldg	
12	Prob engineering and testing bldg		12	Paste propellant/motor storage bldg	
a	High bay section	Complete [redacted]	13	Unit bldg	3 stories high 3 stories high Complete [redacted]
b	Prob engineering section		14	Prob barracks (2)	
13	Shop bldg		15	Prob messhall	
14	Paste shop bldg		16	Paste admin/engineering bldg	
15	Paste shop bldg	One warehouse was present [redacted] the other two were added [redacted]	17	Prob test support bldg	One of the buildings was not present [redacted]
16	Paste shop bldg		18	Hardened area	
17	Warehouse (3)		19	Prob test support bldg	
18	Admin bldg		19	3 support bldgs	
19	Prob laboratory bldg	Dimensions approximate	Probable Support and Housing Area		
20	Unit bldg		1	Quarters	3 stories high 3 stories high Complete [redacted]
21	Prob engineering bldg		2	Quarters	
a	Prob engineering section		3	Quarters	
b	High bay section	4	Quarters		
c	Prob engineering section	Complete [redacted]	5	Vehicle storage bldg	One of the buildings was not present [redacted]
22	Warehouse		6	Dependence housing bldg (4)	
23	Heating plant		7	(1)	
24	Prob messhall		8	Auditorium/messhall and kitchen	
25	Barracks (4)	Walled	9	Support bldg	3 stories high 3 stories high Complete [redacted]
26	Prob engineering bldg		10	Quarters	
a	Prob engineering section		11	Quarters	
b	High bay section		12	Support bldg	
c	Prob engineering section		3 support bldgs		
27	Prob engineering bldg (2)				
28	Prob engineering bldg				
29	Paste test pad				
30	Prob engineering bldg				
	16 support bldgs				

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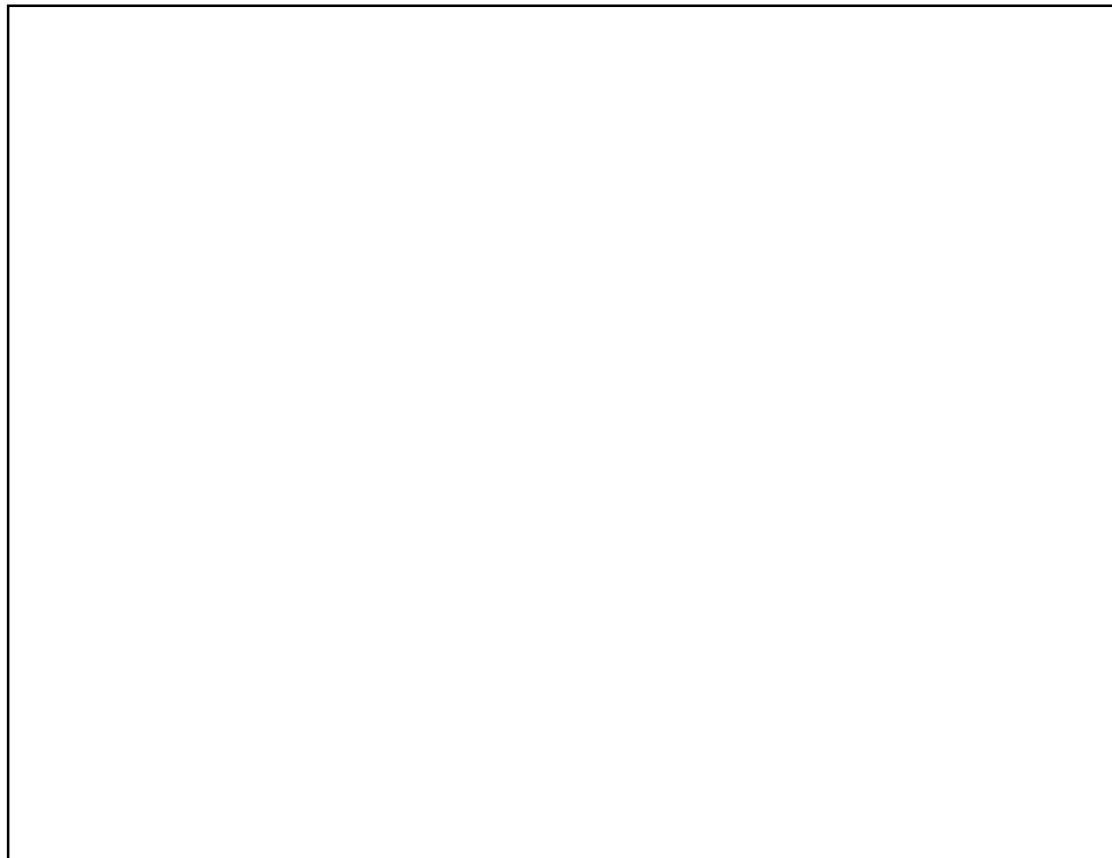
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REFERENCES

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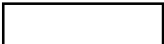
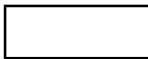


MAPS OR CHARTS

67th RTS. USATC, Series 200, Sheet 0289-22, scale 1:200,000

DOCUMENT

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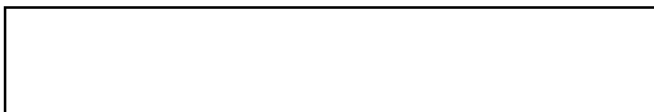
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REQUIREMENT

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